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Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary) <div style="text-align: center;">APR 02 2002</div>		Complete if Known	
Application Number		10/074,577	
Filing Date		02/11/2002	
First Named Inventor		Brown et al.	
Group Art Unit		2121	
Examiner Name		P214062	
Attorney Docket Number		P214062	

U.S. PATENT DOCUMENTS							
Examiner Initials*	Cite No. ²	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	class/ subclass	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ²				
MMVB		5,977,951		Danieli et al.	11-1999	345/156	
		5,746,602		Kikinis	05-1998	434/169	
		5,752,880		Gabai et al.	05-19-1998	463/1	
		5,733,131		Park	03-31-1998	434/307R	
		5,636,994		Tong	06-10-1997	434/308	
		5,655,945		Jani	08/12/1997	446/175	
		4,846,693		Baer	07-11-1989	434/308	
		5,873,765		Rifkin et al.	02-23-1999	446/301	
		4,809,335		Rumsy	02-28-1989	704/266	
		5,846,132		Junkin	12-08-1998	463/42	
		5,890,963		Yen	04-06-1999	463/42	
		5,707,289		Watanabe et al.	01-13-1998	463/40	
		5,800,268		Molnick	09-01-1998	463/40	
		5,907,831		Lotvin et al.	05-25-1999	705/14	
		5,801,946		Nissen et al.	09/01/1998	700/95	
		4,840,602		Rose	06-20-1989	446/175	
		4,857,030		Rose	08/15/1989	446/303	
		5,607,336		Lebensfeld et al.	03/04/1997	446/297	
		5,596,994		Bro	01-1997	600/545	
	MMVB		5,377,258		Bro	12-1994	379/106.02

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Examiner Initials*	Cite No. ¹	Foreign Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Office ³	Number			
MMVB		EP	0508912 A1	Schott, Michael	10-14-1992	
		EP	0275826 A1	European Patent Office	07-1998	
		EP	0442676 A2	European Patent Office	08-1991	
		WO	95/07504 A1	WIPO	03-1995	
		EP	0 281 427 B1	Pierce et al.	08-05-1992	
		EP	0 583 908 A2	Edgar et al.	02-23-1994	
		JP	Japanese 59 228473		06-09-1983	
		GB	2 224 896 A	Powell	12-11-1991	
		WO	92/11731 A2	WIPO/Bell	07-09-1992	
		WO	93/08654 A1	WIPO/Stillman et al.	04-29-1993	

Examiner Signature	<i>MM Von Buren</i>	Date Considered	6/10/04
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¹ Unique citation designation number ² See attached Kinds of U.S. Patent Documents ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3) ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible ⁶ Applicant is to place a check mark here if English language Translation is attached.

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Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Complete if Known	
Sheet	2	Application Number Filing Date First Named Inventor Group Art Unit Examiner Name	10/074,577 2/11/2002 Brown et al. 2121 Attorney Docket Number P214062

U.S. PATENT DOCUMENTS						
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		Number	Kind Code ³			
MMA/B		4,897,835		Gaskill et al.	01-1990	370/314
		4,713,808		Gaskill et al.	12-1987	370/314
		6,209,037		Brown et al.	03/27/2001	709/230
		5,867,385		Brown et al.	02-02-1999	700/56
		5,691,897		Brown et al.	11-25-1997	700/56
		6,139,177		Venkatraman et al.	10-2000	700/83
		6,216,173		Jones et al.	04-10-2001	345/705
		5,600,373		Chui et al.	02-04-1997	375/240.1
		5,666,161		Kohivama et al.	09-09-1997	375/240.10
		5,790,178		Shibata et al.	08-04-1998	348/14.07
		5,818,537		Enokida et al.	10-06-1998	348/441
		5,821,987		Larson	10-13-1998	348/14.15
		5,924,013		Guido et al.	07-13-1999	725/67
		5,960,085		De La Huerga	09-28-1999	340/5.61
		5,920,476		Hennessey et al.	07-16-1999	700/17
		5,493,281		Owens	02-20-1996	340/025.24
		5,453,933		Wright et al.	09/1995	700/181
		6,078,968		Lo et al.	06/2000	710/5
		4,531,182		Hyatt	07-1985	700/2
		4,937,737		Schwane et al.	06-1990	719/310

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Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	†
		Office ³	Number	Kind Code ⁵ (if known)				

Examiner Signature		Date Considered	6/10/04
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² Unique citation designation number ³ See attached Kinds of U.S. Patent Documents ⁴ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3) ⁵ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document ⁶ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible ⁷ Applicant is to place a check mark here if English language Translation is attached.

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Sheet 3

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PATENT DOCUMENTS

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		Number	Kind Code 2				
MMNB		5,095,445		Sekiguchi	03-1992	709/246	
		5,126,932		Wolfson et al.	06-1992	709/202	
		5,175,817		Adams et al.	12-1992	709/236	
		5,245,703		Hubert	09-1993	710/105	
		5,247,650		Judd et al.	09-1993	703/20	
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		5,491,813		Bondy et al.	02-1996	719/323	
		5,604,843		Shaw et al.	02-1997	358/1.1	
		5,608,894		Kawakami et al.	03-1997	717/162	
		5,168,441		Onarheim et al.	12-1992	700/17	
		5,392,207		Wilson et al.	02-1995	700/64	
		5,412,757		Endo	05-1995	706/52	
		5,465,215		Strickland et al.	11-1995	700/180	
		5,907,704		Gudmundson et al.	05-1999	717/100	
		5,914,876		Hirai	06-1999	700/87	
		5,855,483		Collins et al.	01-05-1999	434/322	
		4,159,417		Rubincam	06-26-1979	235/375	
MMNB		4,767,334		Thorne et al.	08-30-1988	434/29	

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1 Unique citation designation number 2 See attached Kinds of U.S. Patent Documents 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3) 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible 6 Applicant is to place a check mark here if English language Translation is attached.

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet 4

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Application Number	10/074.577
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10/074.577

Filing Date	2/11/2002
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2/11/2002

First Named Inventor	Brown et al.
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Brown et al.

Group Art Unit

2121

Examiner Name

Attorney Docket Number	P214062
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PATENT DOCUMENTS

Examiner Initials*	Cite No. ²	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	class/ subclass	Pages, Claims, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ²				
mmw		4,855,725		Fernandez	08-08-1989	345/173	
		4,887,966		Gellerman	12-19-1989	463/38	
		5,120,065		Driscoll et al.	06-09-1992	273/237	
		5,402,518		Lowery	03-28-1995	704/201	
		5,450,079		Dunaway	09-12-1995	341/23	
		5,670,992		Yasuhara et al.	09-23-1997	345/173	
		6,101,425		Govindaraj et al.	08-08-2000	700/181	
		5,852,441		Nakaiima et al.	12-22-1998	345/866	
		5,822,207		Hazama et al.	10-13-1998	700/97	
		5,737,523		Callaghan et al.	04-07-1998	713/201	
		5,652,866		Aldred et al.	07-29-1997	703/23	
		4,418,381		Molusis et al.	11-29-1983	700/2	
		6,144,895		Govindaraj et al.	11-07-2000	700/181	
		5,764,155		Kertesz et al.	06-09-1998	700/295	
		5,617,528		Stechmann et al.	04-01-1997	715/517	
mmw		5,828,575		Sakai	10-27-1998	700/182	

FOREIGN PATENT DOCUMENTS

[illegible]

**Examiner
Signature**

Min Von Bucher

Date _____

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1 Unique citation designation number 2 See attached Kinds of U.S. Patent Documents 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3) 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible 6 Applicant is to place a check mark here if English language Translation is attached.

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Substitute for form 1449B/PTO		Compleat if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	10/074,577
		Filing Date	2/11/2002
		First Named Inventor	Brown et al.
		Group Art Unit	2121
		Examiner Name	
Sheet 5	of 10	Attorney Docket Number	P214062

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OTHER INFORMATION - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.†	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	†
MMVB		WOSA Backgrounder: Delivering Enterprise Services to the Windows-based Desktop, July 1993, Microsoft Development Library; pp. 1-19.	
		WOSA INSIDE WINDOWS 95; pp. 348-351, NO DATE.	
		Software Products for Industrial Automation, ICONICS; 6 pages, NO DATE.	
		WEB 3.0 Product Brochure, Trihedral Engineering Ltd. (1994); 6 pages.	
		The Complete, Computer-Based Automation Tool (IGSS) Seven Technologies A/S; 6 pages, NO DATE.	
		Oregon Micro Systems Product Guide: pp. 1-20, NO DATE	
		AIMAX-WIN Product Brochure, TA Engineering Co., Inc.; 8 pages, NO DATE.	
		XANALOG Model NL-SIM Product Brochure, XANALOG, 4 pages, NO DATE.	
		ExperTune PID Tuning Software, Gerry Engineering Software; 6 pages, NO DATE.	
		PMAC Product Catalog, page 43, NO DATE.	
MMVB		Paragon TNT Product Brochure, Intec Controls Corp.; 6 pages, NO DATE	

Examiner Signature	MM Van Buken	Date Considered	6/8/04
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Substitute for form 1449B/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i> APR 02 2002 PATENT & TRADEMARK		Application Number	10/074,577
		Filing Date	2/11/2002
		First Named Inventor	Brown et al.
		Group Art Unit	2121
		Examiner Name	
Sheet 6	of 10	Attorney Docket Number	P214062

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OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.†	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	†
<i>mmvb</i>		Aerotech Motion Control Product Guide; pp. 233-234, NO DATE.	
		OpenBatch Product Brief, PID, Inc.; 6 pages, NO DATE.	
		PC/DSP-Series Motion Controller C Programming Guide; pp. 1-54, NO DATE.	
		FIX Product Brochure, Intellution (1994); 6 pages, NO DATE.	
		Precision Motion Controls Product Guide; page 17, NO DATE.	
<i>mmvb</i>		Compumotor Digiplan (1993-94) Catalog pp. 10-11. NO	

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MMMB		SUE CHEN, JONATHON LIN; "Computer Numerical Control: Essentials in Programming and Networking"; Part 5, Chapter 27; pp. 824-848, NO DATE.
		PRITSCHOW et al.; "Open System Controllers: Challenge for the Future of the Machine Tool Industry"; pub. 1/15/93; pp. 449-452.
		WILLIAM E. FORD; "What Is an Open Architecture Robot Controller" pub. 8/16/94; pp. 27-32.
		MARCOS et al.; "A New Solution for Integrating Control Devices Involved in Computer-Integrated Manufacturing"; pub. 9/2/96; pp. 485-490.
		CHU AND WANG; "Development of a Practical SFC System for CNC Machine Shop"; pub. 1994; pp. 362-367.
		MICROSOFT; "The Microsoft Object Technology Strategy"; pub. March 1994; pp. 1-33.
		MICROSOFT; "Open Systems: Technology, Leadership, and Collaboration"; pub. March 1994; pp. 1-15.
		MICROSOFT; Microsoft OLE Today and Tomorrow: Technology Overview"; pub. December 1993; pp. 1-9.
		MICROSOFT; "Object Linking and Embedding 2.0 Backgrounder"; pub. September 1993; pp. 1-15.
		ROBERT ANDERSON; "SMART: A Modular Architecture for Robotics and Teleoperation"; pub. 1993; pp. 416-421.
MMMB		PROCTOR et al.; "Validation of Standard Interfaces from a Machine Control"; pub. 1996; pp. 659-664.

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Sheet 8 of 10	Attorney Docket Number	P214062	APR 03 2002

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
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MMW		ALTINTAS et al.; "Design and Analysis of a Modular CNC System"; pub. 3/4/90; pp. 305-316.	
		WRIGHT et al.; "Open Architecture Manufacturing: The Impact of Open-System Computers on Self-sustaining Machinery and the Machine Tool Industry"; pp. 41-47, NO DATE.	
		PROTOCTOR et al.; "Open Architecture Controllers"; pub. June 1997; pp. 60-64.	
		LUTZ et al.; "OSACA-The Vendor-Neutral Control Architecture"; pub. December 1997; pp. 247-256.	
		MORALES et al.; "A Generalised Software Control System for Industrial Robots"; pub. 1998; pp. 411-416.	
		FENG et al.; "Distributed Control of a Multiple-Tethered Mobile Robot System for Highway Maintenance and Construction"; pub November 1997; pp. 383-392.	
		FEDROWITZ; "IRL-Based Expansion of the Commonly Used High-Level Language C for Robot Programming;" pub. Oct. 1995; 5 pages.	
		SZABO et al.; "Validation Results of Specifications for Motion Control Interoperability"; pub. 1997; pp. 166-167.	
		CHANG et al.; "Development and Implementation of an Application Programming Interface for PC/DSP-based Motion Control System"; pub. 1998; pp. 94-105.	
		EROL et al.; "Open System Architecture Modular Tool Kit for Motion and Machine Control"; pub. September 2000; pp. 281-291.	
MMW		MIZUKAWA et al.; "OriN: Open Robot Interface for the Network: A Proposed Standard"; pub. May 2000; pp. 344-350.	

Examiner Signature	MA Van Buhr	Date Considered	6/8/04
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Substitute for form 1449B/PTO		Compl. te if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	10/074,577
		Filing Date	02/11/2002
		First Named Inventor	Brown et al.
		Group Art Unit	2121
		Examiner Name	
Sheet 9 of 10	Attorney Docket Number	P214062	

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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.†	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	†
MUN		MICHALOSKI et al.; "A Framework for Component-base CNC Machines" pub. November 1998; pp. 132-143	
		BOUZOUIA et al.; "A Three-layer Workcell Control Architecture Design"; pub. May 1998; pp. 1185-1191	
		MORALES et al.; "GENERIS: The EC-JRC Generalized Software Control System for Industrial Robots"; pub. 1999; pp. 26-33	
		MUIR et al.; "Mechatronic Objects for Real-time Control Software Development"; pub. November 1998; pp. 251-265	
		CHO et al.; "A Compact/Open Network-based Controller Incorporating Modular Software Architecture for a Humanoid Robot"; pub. 1999; pp. 341-355	
		GE et al.; "A One-stop Solution in Robotic Control System Design"; pub. September 2000; pp. 42-55	
		MCGRAW et al.; "A Friendly Command, Control, and Information System for Astronomy"; pub. 1996; pp. 356-367	
		JACKMAN; "Robotic Control Using Sequential Function Charts"; pub. 1996; pp. 120-128	
		MIZUKAWA et al.; "De-facto Standard API for Open and Networked Industrial Robots"; pub. October 1999; pp. 455-462	
		LEU et al.; "A Telemanufacturing Workcell over the Internet"; pub. November 1998; pp. 230-237	
MUN		NATALE et al.; "Robust Hybrid Force/Position Control with Experiments on an Industrial Robot"; pub. September 19, 1999; pp. 956-961	

Examiner Signature	MUN Van Buren	Date Considered	6/8/04
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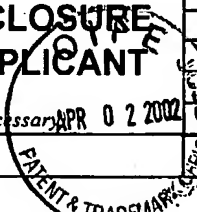
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		Filing Date	02/11/2002
		First Named Inventor	Brown et al.
		Group Art Unit	2121
		Examiner Name	
		Attorney Docket Number	P214062
Sheet	10	of	10



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MWB		NILSSON et al.; "Integrated Architecture for Industrial Robot Programming and Control"; pub. Dec. 31, 1999; pp. 205-226	
		VALERA et al.; "Interactive Online Evaluation of Robot Motion Control"; pub. August 22, 1999; pp. 1039-1043	
		"NEMI Low-cost Controller Project"; pub. December 1996; total pages 392	
		SPERLING; "Designing Applications for an OSACA Control"; pub. November 16, 1997; 5 pages	
		LUTZ et al.; "OSACA: The Vendor-neutral Control Architecture"; pub. 1997; 10 pages	
		SPERLING et al.; "Enabling Open Control Systems: An Introduction to the OSACA System Platform"; pub. May 1996; pp. 1-8	
		"Requirements of Open Modular Architecture Controllers for Applications in the Automotive Industry"; pub. 12/13/94; pp. 1-13	
		Open, Modular Architecture Controls at GM Powertrain"; pub. May 14, 1996; pp. 1-33	
		PROCTOR et al.; "Validation of Standard Interfaces for Machine Control"; pub. Dec. 6, 2000; pp. 1-7	
MWB		"Technologies Enabling Agile Manufacturing (TEAM) Intelligent Closed Loop Processing"; pub. January 11, 1996; 30 pages	
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Examiner Signature	MWB Von Buch	Date Considered	6/8/04
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Sheet	1	of	3
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Application Number	10/074,577
Filing Date	02/11/2002
First Named Inventor	David W. Brown
Group Art Unit	2125
Examiner Name	Maria VonBuhr
Attorney Docket Number	P214062

U.S. PATENT DOCUMENT						
Examiner Initials*	Cite No. ²	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, .Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ²			
MMA		6,292,174		Mallett et al.	09/18/2001	345/163
		6,028,593		Rosenberg et al.	02/22/2000	345/156
		5,821,920		Rosenberg et al.	10/13/1998	345/156
		6,147,647.		Tassoudji et al.	11/14/2000	343/700 MS
		5,956,484		Rosenberg et al.	09/21/1999	709/203
		6,101,530		Rosenberg et al.	08/08/2000	709/203
		6,161,126		Wies et al.	12/12/2000	709/203
		6,125,385		Wies et al.	09/26/2000	709/203
		6,061,004		Rosenberg	05/09/2000	341/29
		6,046,727		Rosenberg et al.	04/04/2000	345/156
		6,219,032		Rosenberg et al.	04/17/2001	345/157
		6,078,308		Rosenberg et al.	06/20/2000	345/856
		6,317,116		Rosenberg et al.	11/13/2001	345/701
		6,246,390		Rosenberg	06/12/2001	345/156
		6,100,874		Schena et al.	08/08/2000	345/157
		6,166,723		Schena et al.	12/26/2000	345/184
		6,128,006		Rosenberg et al.	10/03/2000	345/163
		6,243,078		Rosenberg	06/05/2001	341/20
		6,191,774		Schena et al.	02/20/2001	345/163
MMA		6,131,097		Peurach et al.	10/10/2000	707/102

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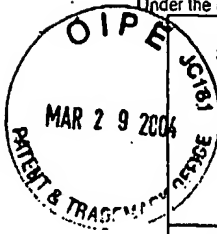
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Sheet	2	of	3	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Application Number</td> <td>10/074,577</td> </tr> <tr> <td>Filing Date</td> <td>02/11/2002</td> </tr> <tr> <td>First Named Inventor</td> <td>David W. Brown</td> </tr> <tr> <td>Group Art Unit</td> <td>2125</td> </tr> <tr> <td>Examiner Name</td> <td>Maria VonBuhr</td> </tr> <tr> <td>Attorney Docket Number</td> <td>P214062</td> </tr> </table>	Application Number	10/074,577	Filing Date	02/11/2002	First Named Inventor	David W. Brown	Group Art Unit	2125	Examiner Name	Maria VonBuhr	Attorney Docket Number	P214062
Application Number	10/074,577															
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First Named Inventor	David W. Brown															
Group Art Unit	2125															
Examiner Name	Maria VonBuhr															
Attorney Docket Number	P214062															

U.S. PATENT DOCUMENTS

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		Number	Kind Code ³			
MMVB		6,285,351		Chang et al.	09/04/2001	345/156
		6,300,936		Braun et al.	10/09/2001	345/156
		6,304,091		Shahoian et al.	10/16/2001	324/662
		6,288,705		Rosenberg et al.	09/11/2001	345/163
		5,438,529		Rosenberg et al.	08/01/1995	708/131
		5,623,582		Rosenberg	04/22/1997	700/264
		5,576,727		Rosenberg et al.	11/19/1996	345/179
		5,691,898		Rosenberg et al.	11/25/1997	700/85
		6,057,828		Rosenberg et al.	05/02/2000	345/156
		6,271,833		Rosenberg et al.	08/07/2001	345/161
		5,889,672		Schuler et al.	03/30/1999	700/83
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		6,169,540		Rosenberg et al.	01/02/2001	345/701
		5,701,140		Rosenberg et al.	12/23/1997	345/156
		5,739,811		Rosenberg et al.	04/14/1998	345/161
		5,734,373		Rosenberg et al.	03/31/1998	345/161
		6,104,158		Jacobus et al.	08/15/2000	318/568.11
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		6,300,937		Rosenberg	10/09/2001	345/156
		6,232,891		Rosenberg	05/15/2001	341/20

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Sheet 3

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of

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Attorney Docket Number

P214062

Application Number

10/074,577

Filing Date

02/11/2002

First Named Inventor

David W. Brown

Group Art Unit

2125

Examiner Name

Maria VonBuhr

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MMMB		6,252,853		Ohno	06/26/2001	370/242
		6,278,439		Rosenberg et al.	08/21/2001	345/157
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		6,310,605		Rosenberg et al.	10/30/2001	345/157 RECEIVED
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		5,889,670		Schuler et al.	03/30/1999	700/83
		5,825,308		Rosenberg	10/20/1998	341/20 Technology Center 2100
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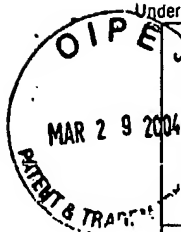
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	10/074,577
		Filing Date	02/11/2002
		First Named Inventor	David W. Brown
		Group Art Unit	2125
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		Attorney Docket Number	P214062
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MVB	1	BRADLEY BARGEN and PETER DONNELLY; <u>Inside Direct X – In Depth Techniques for Developing High-Performance Multimedia Applications</u> ; 1988; Chps. 1, 18-20, 22-27; Microsoft Press; U.S.	
	2	PETER KOVACH; <u>Inside Direct3D – The Definitive Guide for Real-Time 3D Power and Performance for Microsoft Windows</u> ; 2000; Chps. 1, 7, 15; Microsoft Press; U.S.	
	3	M. FARSI and M. BARBOSA; <u>CANopen Implementation - Applications to Industrial Networks</u> ; 2000; Research Studies Press Ltd.; England and U.S.	
	4	WOLFHARD LAWRENZ; <u>CAN System Engineering – From Theory to Practical Applications</u> ; 1997; Springer-Verlag New York, Inc.; U.S.	
	5	ALLEN-BRADLEY; "CNCnet Software Library"; October, 1992; Publication 8000-6.1.1; U.S.	
	6	ROBERT BOSCH GmbH; "CAN Specification"; September, 1991; Version 2.0.	
	7	SISCO, INC.; "Overview and Introduction to the Manufacturing Message Specification (MMS)"; 1994-1995; Revision 2; Systems Integration Specialists Company, Inc.; Sterling Heights, Michigan, U.S.	
	8	ISO-9506-1 "Industrial Automation Systems—Manufacturing Message Specification—Part 1: Service definition"; August, 2000; pp. i-22; ISO/IEC; Switzerland.	
	9	ISO-9506-2 "Industrial Automation Systems—Manufacturing Message Specification—Part 2: Protocol specification"; August 2000; pp. i.-6; ISO/IEC; Switzerland.	
	10	SISCO, INC.; "MMS-EASE"; January 1996; Systems Integration Specialists Company, Inc.; Sterling Heights, Michigan, U.S.	
	11	ANSI/EIA-484-A "Electrical and Mechanical Interface Characteristics and Line Control Protocol Using Communication Control Characters for Serial Data Link Between a Direct Numerical Control System and Numerical Control Equipment Employing Asynchronous Full Duplex Transmission"; June, 1995; Electronic Industries Association; U.S.	

Examiner Signature	<i>Maria Von Buhr</i>	Date Considered	6/8/04
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Sheet 2 of 3	Attorney Docket Number	P214062	

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MVB	12	ISO/IEC 7498-1 "Information Technology—Open Systems Interconnection-Basic Reference Model: The Basic Model"; November 1994; U.S.
	13	ISO/IEC 7498-3 "Information Technology—Open Systems Interconnection-Basic Reference Model: Naming and Addressing"; April 1997; U.S.
	14	TODD J. SCHUETT; "The Benefits and Data Bottlenecks of High Speed Milling"; August, 1995; conference paper presented at Southeastern Michigan Chapter American Mold Builders Association; Creative Technology Corporation; U.S.
	15	TODD J. SCHUETT; "The Ultimate DNC; Direct CNC Networking (DCN)"; <u>Modern Machine Shop</u> ; January, 1996; Creative Technology Corporation; U.S.
	16	TODD J. SCHUETT; "Advanced Controls for High Speed Milling"; conference paper presented at the SME "High Speed Machining" conference; May 7-8, 1996; Creative Technology Corporation; U.S.
	17	LEITAO, MACHADO & LOPES; "A Manufacturing Cell Integration Solution"; paper developed at CCP as a part of the ESPRIT 5629 Project; October, 1995.
	18	MITSUBISHI ELECTRIC; <u>Mitsubishi Electric Advance: Programmable Logic Controllers Edition</u> ; September, 1996; Vol. 76; Mitsubishi Electric Corporation; Tokyo.
	19	FARSI, M.; "Flexible and Reliable Robotics Cells in Factory Automation"; 1993; pp. 520-525.
	20	CHU & WANG; "Development of a Practical SFC System for CNC Machine Shop"; <u>International Conference on Data and Knowledge Systems for Manufacturing and Engineering</u> ; May 1994; pp. 362-367, Vol. 1; pp. xx+745, Vol. 2.; Chinese Univ.; Hong Kong.
	21	FARSI, M.; "Device Communication for Flexible Manufacturing:-A New Concept"; 1994; pp. 328-334.
MVB	22	FARSI, M.; "A Production Cell Communication Model in Factory Automation Using the Controller Area Network"; 1995; pp. 90-95.

Examiner Signature	<i>Maria VonBuhr</i>	Date Considered	6/8/04
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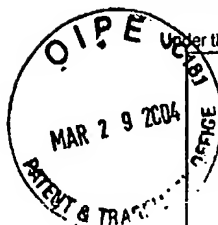
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		Group Art Unit	2125
		Examiner Name	Maria VonBuhr
		Attorney Docket Number	P214062
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OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	
MNB	23	FARSI, M. "CANopen: The Open Communications Solution"; 1996; pp. 112-116.	
	24	KATAYAMA et al.; "A Motion Control System with Event-driven Motion-module Switching Mechanism for Robotic Manipulators"; IEEE International Workshop on Robot and Human Communication; July, 1993; pp. 320-325; U.S.	
	25	MATSUI et al.; "An Event-Driven Architecture for Controlling Behaviors of the Office Conversant Mobile Robot, Jijo-2"; Proceedings of the 1997 IEEE International Conference on Robotics and Automation; April 1997; pp. 3367-3372; U.S.	
	26	MICROSOFT CORPORATION; "How to Write and Use ActiveX Controls for Microsoft Windows CE 3.0"; Windows CE 3.0 Technical Articles; June, 2000; pp. 1-5.	
	27	MICROSOFT CORPORATION; "Notes on Implementing an OLE Control Container"; ActiveX Controls Technical Articles; September 21, 1994; pp. 1-47.	
	28	MICROSOFT CORPORATION; "What OLE Is Really About"; OLE (General) Technical Articles; July, 1996; pp. 1-33.	
MNB	29	MICROSOFT CORPORATION; "Categorizing by Component Capabilities"; Platform SDK: COM; November, 2001; pp. 1-23.	
<div style="border: 1px solid black; padding: 10px; width: fit-content; margin: auto;"> RECEIVED MAR 30 2004 Technology Center 2100 </div>			

Examiner Signature	<i>Maria Von Buhr</i>	Date Considered	6/8/04
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Unique citation designation number 2 Applicant is to place a check mark here if English language Translation is attached.

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